

Chapter 6 Changes From Revision 2 to Revision 3

Item	Location (e.g., subsection with paragraph/sentence/item, table with column/row, or figure)	Description of Change
1.	Abbreviations and Acronyms List, GEEN & POV	Additional information provided
2.	S06.00, item 3, bullet b	Replaced EBAS with CRHAVS
3.	S06.01, 2 nd para, 2 nd & 3 rd sent	Rewritten for clarity in response to RAI 6.3-39
4.	S06.01.03.01, bullet 1	Additional Regulatory Guide section “6.1.2.2”
5.	S06.02.01.01.02, 13 th para	Deletion of information in response to RAI 3.6-22
6.	S06.02.01.01.02, 18 th and 19 th para	Description of Spillover pipes deleted and spillover holes description rewritten
7.	S06.02.01.01.03, 6 th para, 2 nd , 3 rd sent	Changed limiting pipe break response for containment pressurization to main steam line break with failure of one DPV
8.	S06.02.01.01.03.01, 2 nd , 3 rd , 4 th para	Added reference to TRACG appendix and details to feedwater line break analysis
9.	S06.02.01.01.03.02 1 st and 2 nd para	Added additional detail to main steam line break analysis and reference to new figures added
10.	S06.02.01.01.03.03 1 st para	Added reference to new figures added
11.	S06.02.01.01.03.04, 1 st and 2 nd para	Added reference to new figures added
12.	S06.02.01.01.03.05, 1 st 2 nd para	Added reference to new figures added
13.	S06.02.01.01.05.01	Revised to include bypass leakage for bounding calculations
14.	S06.02.01.01.05.04.01	Section deleted, pre-operational testing covered in Section 6.2.1.1.5.4.3
15.	S06.02.01.01.05.04.02	Changed requirement for low pressure bypass leakage from integrated to local testing of vacuum breakers
16.	S06.02.01.01.05.04.03	Revised acceptance criteria for bypass leakage testing
17.	S06.02.01.01.05.01, Last sent	Deleted last sentence describing measuring of bypass leakage to position indication given by position indicators

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18.	S06.02.02.02.01, 2 nd para, 2 nd sent	Added description of vacuum breaker operability for PCCS function
19.	S06.02.02.02.02, 15 th para	Addition of word “expansion”
20.	S06.02.02.02.02, 16 th para, 1 st and 2 nd sent	Added additional description of pneumatic; Addition of wording “expansion”
21.	S06.02.03.02, 8 th para, 2 nd sent	Rewritten for clarity in response to RAI 3.8-30
22.	S06.02.04, 2 nd para, 4 th & 5 th bullet	Additional information provided in response to RAI 6.2-104
23.	S06.02.04.01, 2 nd & 3 rd bullet	Additional information provided in response to RAI 6.2-105 and 6.2-106
24.	S06.02.04.02, 2 nd & 3 rd para	Removed description of motor operated valves and revised for valve consistent terminology
25.	S06.02.04.02.01, 1 st , 3 rd – 6 th sent	Replaced 10CFR100 with 10CFR50.67. Additional information in response to RAI 6.2-108
26.	S06.02.04.02.02, 2 nd and 3 rd sent	Additional information in response to RAI 6.2-110
27.	S06.02.04.02.03	Additional information in response to RAI 6.2-111
28.	S06.02.04.02.04, 1 st para, 8 th sent	Deletion of information in response to RAI 6.2-112, 6.2-113 & 6.2-114
29.	S06.02.04.02.04, 2 nd para, 2 nd sent	Additional information in response to RAI 6.2-112, 6.2-113 & 6.2-114
30.	S06.02.04.02.04, 3 rd para, 1 st sent	Additional information in response to RAI 6.2-112, 6.2-113 & 6.2-114
31.	S06.02.04.02.05, 1 st para, 3 rd sent	Additional information in response to RAI 6.2-115
32.	S06.02.04.02.05, 2 nd para, 2 nd sent	Additional information in response to RAI 6.2-116
33.	S06.02.04.02.05, 6 th para,	Rewritten in response to RAI 6.2-117
34.	S06.02.04.03.01.01, 2 nd para	Revised description of isolation valves for feedwater line
35.	S06.02.04.03.01.01, 4 th para, 4 th & 5 th sent	Deletion of information in response to RAI 6.2-119

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36.	S06.02.04.03.01.02, 2 nd para	Paragraph deleted and replaced with revised description of isolating main steam lines and drain lines
37.	S06.02.04.03.02.01, 5 th para, 1 st thru 3 rd sent	Additional information in response to RAI 6.2-123
38.	S06.02.04.03.02.01, 5 th para, 4 th sent and bullets	Additional information in response to RAI 6.2-123
39.	S06.02.04.03.02.01, 6 th para	Rewritten for clarification in response to RAI 6.2-124
40.	S06.02.04.03.02.02, 3 rd para, 1 st and 2 nd sent	Additional information in response to RAI 6.2-125
41.	S06.02.04.03.02.02, 6 th para, & Bullets	Additional information in response to RAI 6.2-126
42.	S06.02.04.03.03, 2 nd para, 6 th sent	Additional information in response to RAI 6.2-115
43.	S06.02.05, 2 nd para	Added statement to indicate an additional functionality to containment will be added
44.	S06.02.06.03, 2 nd para, 4 th sent	Added clarification of exemption to 10CFR50 Appendix J test pressures
45.	S06.02.08.04	Deletion of Table reference in response to RAI 6.2-109
46.	S06.02.01.01.05.01	Providing reference for change in Section 6.2.1.1.5.1
47.	S06.02.09, 6 th ref	Added PRA report as reference
48.	T06.02-01, 19th & 20 row	Revised and added opening and closing differential pressures for vacuum breakers
49.	T06.02-03, 16th & 17 th row	Revised drainable volumes of GDCS pools
50.	T06.02-05, entire table	Table revised for updated analysis due to TRACG modeling and design changes
51.	T06.02-07, entire table	Table revised for updated analysis due to TRACG modeling and design changes
52.	T06.02-07a, entire table	Table revised for updated analysis due to TRACG modeling and design changes
53.	T06.02-07b, entire table	Table revised for updated analysis due to TRACG modeling and design changes

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54.	T06.02-07c, entire table	Table revised for updated analysis due to TRACG modeling and design changes
55.	T06.02-07d, entire table	Table revised for updated analysis due to TRACG modeling and design changes
56.	T06.02-07e, entire table	Table revised for updated analysis due to TRACG modeling and design changes
57.	T06.02-13 & 06.02-14	Terminology updated and additions in response to RAI 3.9-106
58.	T06.02-15	Added additional valve terminology used in containment isolation valve information tables
59.	T06.02-16 thru 06.02-38	Revised valve types and other valve features
60.	T06.02-24 thru T06.02-35, footnotes	Rewritten for clarity in response to RAI 6.2-119 & 6.2-109
61.	T06.02-33a	Revised in response to RAI 6.2-109 & 6.2-125
62.	T06.02-33b	Table added due to change in FAPCS isolation valve configuration and added in response to RAI 6.2-109
63.	T06.02-35	Editorial changes and additions for clarity in response to RAI 6.2-109
64.	T06.02-39	Additional table added in response to RAI 6.2-128
65.	T06.02-39a	Additional table added in response to RAI 6.2-128
66.	T06.02-40	Additional table added in response to RAI 6.2-128
67.	T06.02-41	Deleted - table not used
68.	T06.02-42	Additional table added in response to RAI 6.2-128
69.	T06.02-47	Additional table added in response to RAI 6.2-11
70.	F06.02-2	Figure updated in response to RAI 6.2-101
71.	F06.02-04	Figure revised to show new location of spillover holes and quenchers
72.	F06.02-07	Figure revised to show changes in TRACG nodalization
73.	F06.02-09a1 thru 06.02-14d3	Figures revised for updated analysis due to TRACG modeling and design changes
74.	S06.03.02.06, 7 th and 8 th sent	Revise GDCS deluge description

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75.	S06.03.02.07.01, 2 nd para, 3 rd sent	Revise GDCS deluge description
76.	S06.03.02.07.02, 5 th para, 3 rd sent	Revised GDCS deluge description
77.	S06.03.02.07.02, 12 th para, 1 st and 2 nd sent	Revise description of GDCS check valve
78.	S06.03.02.07.02, 13 th para, 2 nd and 3 rd sent	Technical edit with additional information in response to RAI 6.3-41
79.	S06.03.02.07.02, 14 th para	Clarified safety-related power to GDCS squibs
80.	S06.03.02.07.02, 20 th para, 2 nd – 5 th sent	Revised GDCS deluge description
81.	S06.03.02.07.02, 26 thru 28 th para	Revised description of GDCS check valve
82.	S06.03.02.08, 10 th para	Revised description of DPV valve initiators
83.	S06.03.03.02, 1 st & 2 nd para	Deleted COL requirement and changed Subsection reference to 6.3.6.3
84.	S06.03.03.07.03, 2 nd para	Deleted COL holder item and replaced with specific criteria for bundle design
85.	S06.03.03.08, 2 nd para	Deleted COL holder item and replaced with specific criteria for bundle design
86.	S06.03.06.01, 1 st para	Deleted paragraph requirements given in Sections 6.3.3.8 and 6.3.3.7.3
87.	S06.03.06.02	Added Technical Specification section number
88.	T06.03-02, 6 row under Value column	Revised total drainable volume for GDCS pools
89.	T06.3-11, 2 nd row	Updated ANS decay heat standard
90.	F06.03-01	Revised figure to include perforated steel plate
91.	F06.03-03	Deleted figure in response to revised GDCS check valve description
92.	F-06-03-07a thru 06-03.34b	Figures revised for updated analysis due to TRACG modeling and design changes
93.	F06.03-08 thru 06.03-011	Figures revised for updated analysis due to TRACG modeling and design changes

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94.	F06.03.35a	Figures revised for updated analysis due to TRACG modeling and design changes
95.	F06.03-035b 06.03-038b	Figures revised for updated analysis due to TRACG modeling and design changes
96.	F06.03-039	Updated ANS decay heat standard
97.	S06.04 T06.04-01 T06.04-02 (new) F06.04-01 (replaced)	<p>This Section is re-written to incorporate changes per RAIs 6.4-1 through 6.4-4 and 9.4-10. The major changes include additional system function description, component level detail, envelope construction detail, references to applicable codes and standards, compliance with applicable GDC/Generic Issues/TMI Action plan, reference to dose analyses, and toxic chemical information per the RAIs; the elimination of the EBAS and addition of a set of safety-related Emergency Filter Units to provide control room habitability.</p> <p>Typical changes to tables and figures:</p> <p>Table 6.4-1 was revised to add additional detail and for the EBAS replacement.</p> <p>Table 6.4-2 was added (ESBWR toxic chemical list)</p> <p>Figure 6.4-1 was replaced (EBAS replacement)</p>
98.	S06.05, 1 st para	See description change for Section 6.4
99.	S06.06, 3 rd para, last sent	Deleted redundant information that appears in Table 1.9-22
100.	S06.06.01, 9 th bullet	Revised Chilled Water System
101.	S06.06.03.01, 1 st para, 1 st sent	Deleted redundant information that appears in Section 6.6
102.	S06.06.07, 3 rd para	Additional information for clarity in response to RAI 6.6-7
103.	S06.06.10	Reference to Subsection 6.6.11 for COL items
104.	S06.06.11	Reference to Subsection 6.6.10 for COL items
105.	Appendix 6A	Clarification of TRACG application for ESBWR containment analysis